

Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Original) A thermal fixing device comprising:
a fixing member disposed to be in contact with a fixation medium;
a heating unit configured to heat the fixing member with power supplied thereto;
a supporting unit configured to movably support the fixing member and to move the fixing member when the fixing member is overheated by the heating unit;
a switch disposed to be in contact with the fixing member when the fixing member is moved by the supporting unit, and configured to mechanically cut off the power supplied to the heating unit when the switch contacts with the fixing member; and
a thermal cutoff unit having a bimetal in which deforms by heat, disposed to face the fixing member, and configured to cut off the power supplied to the heating unit by deformation of the bimetal.
2. (Original) The thermal fixing device as claimed in claim 1, wherein the switch mechanically deforms the bimetal to cut off the power supplied to the heating unit.
3. (Original) The thermal fixing device as claimed in claim 1, wherein the switch is configured to become in non-contact with the fixing member when the fixing member is not overheated.
4. (Original) The thermal fixing device as claimed in claim 1, wherein the fixing member comprises a fixing roller, and
wherein the switch is disposed at a position upstream of the thermal cutoff unit with respect to a rotation direction of the fixing roller.

5. (Original) The thermal fixing device as claimed in claim 1 further comprising a pressing member configured to urge the fixing member towards the switch,

wherein the supporting member comprises a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat.

6. (Original) The thermal fixing device as claimed in claim 5, wherein the pressing member comprises a pressure roller that holds the fixation medium against the fixing member, and

wherein the switch is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

7. (Original) The thermal fixing device as claimed in claim 1, wherein the thermal cutoff unit comprises a housing that contains the bimetal and the switch.

8. (Original) The thermal fixing device as claimed in claim 1, wherein the thermal cutoff unit comprises a housing that contains the bimetal, and

wherein the switch is disposed separately from the housing.

9. (Currently Amended) A thermal fixing device comprising:
a fixing member disposed to be in contact with a fixation medium;
a heating unit configured to heat the fixing member with power supplied thereto; and

a thermal cutoff unit having a bimetal that is deformed by heat and exposed toward the fixing member to be in contact therewith without intermediary of air, and configured to cut off the power supplied to the heating unit by deformation of the ~~bimetal~~bimetal; and

a supporting unit configured to movably support the fixing member,

wherein the fixing member is configured to be in contact with the bimetal

through the movement thereof due to the overheat, and is configured to cut off the power supplied to the heating unit by contacting with the bimetal.

10. (Original) The thermal fixing device as claimed in claim 9, wherein the bimetal is configured to be in direct contact with the fixing member.

11. (Original) The thermal fixing device as claimed in claim 9, wherein the fixing member has a fixation area that is to be in contact with the fixation medium, and wherein the bimetal is configured to be in contact with the fixation area of the fixing member.

12. (Canceled)

13. (Original) The thermal fixing device as claimed in claim 9, wherein the bimetal is configured to become in non-contact with the fixing member when the fixing member is not overheated.

14. (Original) The thermal fixing device as claimed in claim 9, wherein the bimetal comprises a projection configured to be in contact with the fixing member.

15. (Currently Amended) The thermal fixing device as claimed in claim 9, further comprising a pressing member configured to urge the fixing member towards the bimetal and comprises a pressure roller that holds the fixation medium against the fixing member,

wherein the supporting ~~member-unit~~ comprises a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat, and

wherein the bimetal is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

16. (Canceled)

17. (Currently Amended) The thermal fixing device as claimed in ~~claim 16~~claim 9, wherein the fixing member has a fixation area that is to be in contact with the fixation medium, and

wherein the heat conductive member is configured to be in contact with the fixation area of the fixing member.

18. (Canceled)

19. (Currently Amended) The thermal fixing device as claimed in ~~claim 16~~claim 9, wherein the heat conductive member is configured to become in non-contact with the fixing member when the fixing member is not overheated.

20. (Currently Amended) The thermal fixing device as claimed in ~~claim 16~~claim 9, wherein the heat conductive member comprises a projection configured to be in contact with the fixing member.

21. (Currently Amended) The thermal fixing device as claimed in claim 48, further comprising:

a pressing member configured to urge the fixing member towards the switch or the bimetal and ~~comprises~~comprising a pressure roller that holds the fixation medium against the fixing member; and

a supporting member that holds the fixing member, the supporting member comprising a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat, and

wherein the heat conductive member is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

22. (Previously Presented) The thermal fixing device as claimed in claim 48, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member and the switch.

23. (Previously Presented) The thermal fixing device as claimed in claim 48, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member, and

wherein the switch is disposed separately from the housing.

24. (Original) An image forming apparatus comprising:
a sheet feeding section configured to feed a sheet; and
an image forming section configured to form an image on the sheet fed by the sheet feeding section,

wherein the image forming section includes a thermal fixing device comprising:

a fixing member disposed to be in contact with the sheet;
a heating unit configured to heat the fixing member with power supplied thereto;

a supporting unit configured to movably support the fixing member and to move the fixing member when the fixing member is overheated by the heating unit;

a switch disposed to be in contact with the fixing member when the fixing member is moved by the supporting unit, and configured to mechanically cut off the power supplied to the heating unit when being contacted with the fixing member; and

a thermal cutoff unit having a bimetal in which deforms by heat, disposed to face the fixing member, and configured to cut off the power supplied to the heating unit by deformation of the bimetal.

25. (Original) The image forming apparatus as claimed in claim 24, wherein the switch mechanically deforms the bimetal to cut off the power supplied to the heating unit.

26. (Original) The image forming apparatus as claimed in claim 24, wherein the switch is configured to become in non-contact with the fixing member when the fixing member is not overheated.

27. (Original) The image forming apparatus as claimed in claim 24, wherein the fixing member comprises a fixing roller, and
wherein the switch is disposed at a position upstream of the thermal cutoff unit with respect to a rotation direction of the fixing roller.

28. (Original) The image forming apparatus as claimed in claim 24, wherein the thermal fixing device further comprises a pressing member configured to urge the fixing member towards the switch,

wherein the supporting member comprises a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat.

29. (Original) The image forming apparatus as claimed in claim 28, wherein the pressing member comprises a pressure roller that holds the sheet against the fixing member, and

wherein the switch is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

30. (Original) The image forming apparatus as claimed in claim 24, wherein the thermal cutoff unit comprises a housing that contains the bimetal and the switch.

31. (Original) The image forming apparatus as claimed in claim 24, wherein the thermal cutoff unit comprises a housing that contains the bimetal, and

wherein the switch is disposed separately from the housing.

32. (Currently Amended) An image forming apparatus comprising:
a sheet feeding section configured to feed a sheet; and
an image forming section configured to form an image on the sheet fed by the sheet feeding section, ~~wherein the image forming section includes~~ including a thermal fixing device comprising:

a fixing member disposed to be in contact with the sheet;
a heating unit configured to heat the fixing member with power supplied thereto; and
a thermal cutoff unit having a bimetal that is deformed by heat and exposed toward the fixing member to be in contact therewith without intermediary of air, and configured to cut off the power supplied to the heating unit by deformation of the ~~bimetal~~ bimetal; and

a supporting unit configured to movably support the fixing member,
wherein the fixing member is configured to be in contact with the bimetal through the movement thereof due to the overheat, and is configured to cut off the power supplied to the heating unit by contacting with the bimetal.

33. (Original) The image forming apparatus as claimed in claim 32, wherein the bimetal is configured to be in direct contact with the fixing member.

34. (Original) The image forming apparatus as claimed in claim 32, wherein the fixing member has a fixation area that is to be in contact with the sheet, and
wherein the bimetal is configured to be in contact with the fixation area of the fixing member.

35. (Canceled)

36. (Original) The image forming apparatus as claimed in claim 32, wherein the bimetal is configured to become in non-contact with the fixing member when the fixing member is not overheated.

37. (Original) The image forming apparatus as claimed in claim 32, wherein the bimetal comprises a projection configured to be in contact with the fixing member.

38. (Currently Amended) The image forming apparatus as claimed in claim 32, wherein the thermal fixing device further comprises a pressing member configured to urge the fixing member towards the bimetal and comprises a pressure roller that holds the sheet against the fixing member,

wherein the supporting ~~member~~unit comprises a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat, and

wherein the bimetal is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

39. (Canceled)

40. (Currently Amended) The image forming apparatus as claimed in ~~claim 39~~claim 32, wherein the fixing member has a fixation area that is to be in contact with the sheet, and

wherein the heat conductive member is configured to be in contact with the fixation area of the fixing member.

41. (Canceled)

42. (Currently Amended) The image forming apparatus as claimed in ~~claim 39~~claim 32, wherein the heat conductive member is configured to become in non-contact with the fixing member when the fixing member is not overheated.

43. (Currently Amended) The image forming apparatus as claimed in ~~claim~~ claim 32, wherein the heat conductive member comprises a projection configured to be in contact with the fixing member.

44. (Currently Amended) The image forming apparatus as claimed in claim 49, wherein the thermal fixing device further comprises:

a pressing member configured to urge the fixing member towards the switch or the bimetal and ~~comprises~~ comprising a pressure roller that holds the sheet against the fixing member,

wherein the supporting ~~member~~ unit comprises a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat, and

wherein the heat conductive member is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

45. (Previously Presented) The image forming apparatus as claimed in claim 49, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member and the switch.

46. (Previously Presented) The image forming apparatus as claimed in claim 49, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member, and

wherein the switch is disposed separately from the housing.

47. (Canceled)

48. (Currently Amended) The thermal fixing device as claimed in ~~claim 16~~claim 9, further comprising:

a switch disposed to be in contact with the fixing member when the fixing member is moved ~~by~~by the supporting unit, and configured to cut off power supplied to the heating unit when the switch contacts the fixing member.

49. (Currently Amended) The image forming apparatus as claimed in ~~claim 39~~claim 32, further comprising:

a switch disposed to be in contact with the fixing member when the fixing member is moved ~~by~~by the supporting unit, and configured to cut off the power supplied to the heating unit when the switch contacts the fixing member.

50. (Previously Presented) A thermal fixing device comprising:

a fixing member disposed to be in contact with a fixation medium;

a heating unit which generates heat by electrical power supplied thereto, the fixing member being heated by the heat generated by the heating member;

a supporting member that supports the fixing member, the supporting member being softened when the fixing member is overheated by the heating unit;

a switch capable of being actuated such that the electrical power supplied to the heating unit is cut off; and

a bimetal disposed to face the fixing member,

wherein the fixing member moves toward the bimetal when the supporting member is softened, the bimetal is deformed by movement of the fixing member, and the switch is actuated by the deformation of the bimetal, and

wherein the bimetal is deformed by heat when the fixing member is overheated, and the switch is actuated by deformation of the bimetal.

51. (New) A thermal fixing device comprising:
- a fixing member disposed to be in contact with a fixation medium;
 - a heating unit configured to heat the fixing member with power supplied thereto;
 - a thermal cutoff unit having a bimetal that is deformed by heat and exposed toward the fixing member to be in contact therewith without intermediary of air, and configured to cut off the power supplied to the heating unit by deformation of the bimetal, the bimetal being configured to be in contact with the fixing member through a heat conductive member having a high thermal conductivity; and
 - a supporting unit configured to movably support the fixing member, wherein the fixing member is configured to be in contact with the heat conductive member through the movement thereof due to the overheat, and is configured to cut off the power supplied to the heating unit by contacting with the heat conductive member.
52. (New) The thermal fixing device as claimed in claim 51, wherein the bimetal is configured to be in direct contact with the fixing member.
53. (New) The thermal fixing device as claimed in claim 51, wherein the fixing member has a fixation area that is to be in contact with the fixation medium, and wherein the bimetal is configured to be in contact with the fixation area of the fixing member.
54. (New) The thermal fixing device as claimed in claim 51, wherein the bimetal is configured to become in non-contact with the fixing member when the fixing member is not overheated.
55. (New) The thermal fixing device as claimed in claim 51, wherein the bimetal comprises a projection configured to be in contact with the fixing member.

56. (New) The thermal fixing device as claimed in claim 51, further comprising a pressing member configured to urge the fixing member towards the bimetal and comprising a pressure roller that holds the fixation medium against the fixing member,

wherein the supporting unit comprises a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat, and

wherein the bimetal is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

57. (New) The thermal fixing device as claimed in claim 51, wherein the fixing member has a fixation area that is to be in contact with the fixation medium, and

wherein the heat conductive member is configured to be in contact with the fixation area of the fixing member.

58. (New) The thermal fixing device as claimed in claim 51, wherein the heat conductive member is configured to become in non-contact with the fixing member when the fixing member is not overheated.

59. (New) The thermal fixing device as claimed in claim 51, wherein the heat conductive member comprises a projection configured to be in contact with the fixing member.

60. (New) The thermal fixing device as claimed in claim 51, further comprising:
a switch disposed to be in contact with the fixing member when the fixing member is moved by the supporting unit, and configured to cut off power supplied to the heating unit when the switch contacts the fixing member.

61. (New) The thermal fixing device as claimed in claim 60, further comprising:
a pressing member configured to urge the fixing member towards the switch or the bimetal and comprising a pressure roller that holds the fixation medium against the fixing

member; and

a supporting member that holds the fixing member, the supporting member comprising a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat; and

wherein the heat conductive member is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

62. (New) The thermal fixing device as claimed in claim 60, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member and the switch.

63. (New) The thermal fixing device as claimed in claim 60, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member, and wherein the switch is disposed separately from the housing.

64. (New) An image forming apparatus comprising:
a sheet feeding section configured to feed a sheet; and
an image forming section configured to form an image on the sheet fed by the sheet feeding section, the image forming section including a thermal fixing device comprising:

a fixing member disposed to be in contact with the sheet;
a heating unit configured to heat the fixing member with power supplied thereto;

a thermal cutoff unit having a bimetal that is deformed by heat and exposed toward the fixing member to be in contact therewith without intermediary of air, and configured to cut off the power supplied to the heating unit by deformation of the bimetal, the bimetal being configured to be in contact with the fixing member through a heat conductive member having a high thermal conductivity; and

a supporting unit configured to movably support the fixing member,
wherein the fixing member is configured to be in contact with the heat
conductive member through the movement thereof due to the overheat, and is configured to
cut off the power supplied to the heating unit by contacting with the heat conductive member.

65. (New) The image forming apparatus as claimed in claim 64, wherein the
bimetal is configured to be in direct contact with the fixing member.

66. (New) The image forming apparatus as claimed in claim 64, wherein the
fixing member has a fixation area that is to be in contact with the sheet, and
wherein the bimetal is configured to be in contact with the fixation area of the
fixing member.

67. (New) The image forming apparatus as claimed in claim 64, wherein the
bimetal is configured to become in non-contact with the fixing member when the fixing
member is not overheated.

68. (New) The image forming apparatus as claimed in claim 64, wherein the
bimetal comprises a projection configured to be in contact with the fixing member.

69. (New) The image forming apparatus as claimed in claim 64, wherein the
thermal fixing device further comprises a pressing member configured to urge the fixing
member towards the bimetal and comprises a pressure roller that holds the sheet against the
fixing member,

wherein the supporting member comprises a bearing member that allows the
pressing member to move the fixing member when the bearing member is softened by the
overheat, and

wherein the bimetal is configured to be in contact with an opposite side of the
fixing device with respect to the pressure roller.

70. (New) The image forming apparatus as claimed in claim 64, wherein the fixing member has a fixation area that is to be in contact with the sheet, and wherein the heat conductive member is configured to be in contact with the fixation area of the fixing member.

71. (New) The image forming apparatus as claimed in claim 64, wherein the heat conductive member is configured to become in non-contact with the fixing member when the fixing member is not overheated.

72. (New) The image forming apparatus as claimed in claim 64, wherein the heat conductive member comprises a projection configured to be in contact with the fixing member.

73. (New) The image forming apparatus as claimed in claim 64, further comprising:

a switch disposed to be in contact with the fixing member when the fixing member is moved by a supporting unit, and configured to cut off the power supplied to the heating unit when the switch contacts the fixing member.

74. (New) The image forming apparatus as claimed in claim 73, wherein the thermal fixing device further comprises:

a pressing member configured to urge the fixing member towards the switch or the bimetal and comprising a pressure roller that holds the sheet against the fixing member,

wherein the supporting unit comprises a bearing member that allows the pressing member to move the fixing member when the bearing member is softened by the overheat, and

wherein the heat conductive member is configured to be in contact with an opposite side of the fixing device with respect to the pressure roller.

75. (New) The image forming apparatus as claimed in claim 73, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member and the switch.

76. (New) The image forming apparatus as claimed in claim 73, wherein the thermal cutoff unit comprises a housing that contains the heat conductive member, and wherein the switch is disposed separately from the housing.